Exhibit **K-3**
Appl. No. 09/558,421

pMC9 / Taq

Pr ject N ______
B ok No. ______

11/21/94 **101**

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rpose: pMC9 amplification, using dU primers # 2728 & 2729

aq titration: buffers < Klentaq / Deepvent

cycling:

uc μM dNTP
μM primer each
o pg template pMC9 / Sal II
mM Mg

94°, 3'
30 (94°, 30", 56°, 30", 72°, 3')

prepared 15 x w/o enzyme → added separately in 1x buffer

		D.V	K.T				
x buffer		75	75	5	50 / λ	1	μl
dNTP		15	15	2.5		.5	
primer	1	7.5	7.5	2		2	
"	2	7.5	7.5	1.5		1.5	
Mg		—	15.0	1	10 / λ	1	
template		3.0	3.0	.5		.5	
H_2O		642.0	627.0	0		0	

distributed 50 μl / tube added enzyme.

tube #

o	1	2	16	17
-	3	4	18	19
	5	6	20	21
5	7	8	22	23
1	9	10	24	25
5	11	12	26	27
-	13	14	28	29
0, 01	15		30	

Deepvent mix

eep Vent buffer

Klentaq buffer:

To Page No.____

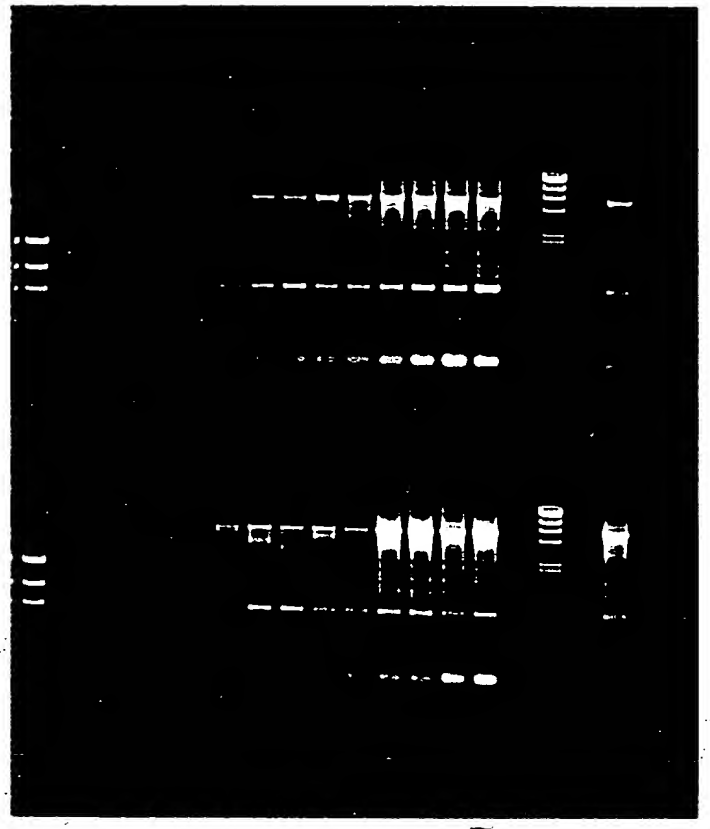
sed & Understood by me,
Date 11/23/94
Invent d by
Date 11/22/94
Recorded by K. Liberman

Project No._____
Book No._____ TITLE _____

From Page No.__

Taq titration:

0 .5 1 1.5 2 2.5 5



← D.V buffer

← K.T. buffer

0 .5 1 1.5 2 2.5 5 1:0.01 mix

Result: more product with increasing amounts of Taq expected.

- K.T.B / 1U better than D.V / 1U
- 1:0.01 but better than 1U Taq alone.
- K.T.B more product than D.V. buffer.
- But bit of mispriming — adjust the cycling conditio

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Witnessed & Understood by me,	Date	Invented by	Dat
	11/22/94	R corded by K. Sharman	11/22/94